



# Ø BEAT

P.O. BOX - 1797  
COLO. SPRINGS,  
COLORADO

AUG 1961

## FIELD DAY

Field Day week end was a hectic one for several groups in the Pikes Peak area. One group set up in the Black Forest under the call KØAUT and another gang signing KØTBE went up to a site overlooking the city near the north end reservoir. From all reports received there was adventure, fun, and thrills as well as much loss of sleep and lots of food, beer, cokes and cigars consumed.

The KØAUT group included beside Ken the call owner the following gang of intrepid and avid operators.....W7JJM Sid, KØPSU Gene, K4ILF John, KØUDG Pete, KNØEVP Mike, KNØDXZ Jim. They had a bunch of miscellaneous gear and had some difficulties but the workhorse of the event was the DX 100/SB-10 and a SX-100 using a Hornet Tribander up 15'. Barring a little generator trouble there was not anything really exciting to report. The site for this group was out in the Black Forest at the Waymen Batey Ranch. Contacts totalled 218 for a score of 1458 points.

The other gang who braved the elements for the FD weekend operated under the call KØTBE. They did not go so far out of town but found a very isolated site close by the city reservoir on the hill overlooking the city at the North end of town. Operating in the two transmitter simultaneously class they managed to roll up 709 contacts for a score of 4404 points. SSB was used on 40, 20, 15 meters with a CW used on 80, 40, 20 and 15 meters. The crew included Joe W3CEQ, Ed KØZPG, Floyd K8APP, Hutch K3DMZ, Neal W4EKD and Dick KØTBE. This gang learned something about putting up long wire antennae during electrical storms.....don't do it. There was arcing and sparking all around the foolhardy soul until the ground and lightning arrestor was made fast. If equipment would have won the contest this gang had it made. The set up looked like a fire sale at Allied Radio. Out of this vast array of junk the two set ups included a KWM-2 for the CW crew and a CE 200-V and 51J-4 for the SSB folks. It was kind of rough out there in the field but everybody survived in spite of the rough living conditions. The "shack" was a converted dity bus set up as a camper with sleeping accommodations for six including shower, toilet, stove, refrigerator, etc.

NEXT MEETING WED 9 AUG '61 YMCA  
YOUTH CENTER WEBER - BNOU & R.M.

## TWO METER ACTIVITY

There has been some questions raised as to the activity on 146.25 MCS. Among the many amateurs in the Pikes Peak region equipped for 2 meter operation, only a few have seen fit to operate on the amateur frequency of 146.25.

For instance, on 22 Jul 61, Ray, WØBAG in Security was engaged in QSO with Jim, KNØDX and Kent, KØVCR in Colorado Springs. Very high power was used in these contacts - 5 watts nominal input. Ray was using a somewhat elaborate rig - a 5 element beam into a xtal controlled coverter into a BC-455 (a 6 - 9.1 mc. ARC-5). His transmitter was an ARC-3. Jim and Kent both used more elaborate equipment - Heath twoers. (5 watt transmitter and superregenerative receivers) Jim's antenna was a coaxial vertical peaked on 146 mcs., and Kent's was a AN/TRC-7 ground plane.

Copy was excellent; Ray was read at 59 at both Jim and Kent, Kent had a 59 report; and Jim was way under 58. (Hardly armchair copy HI)

Much other activity has been noted on 146.25 mcs - The Pikes Peak Hill Climb net was operated on this freq - (again Jim, Kent, and their twoers on top; Bill KØALH and John, KNØEND, operated at the starting line). The starting line station, using Bill's call, utilized an ARC-1, with a good old 522-C as stand by. The 522 was not needed; the antenna used was a cubical quad, and power was an 110-V a.c. generator.

On top were the two twoers, one as stand by (which was never used). The antenna was Kent's TRC-7 ground plane atop a 40 foot mast. Power was supplied via a 12 volt d.c. motor generator. (No problems with this at 14,000 feet either)

During the entire operation only two irregularities occurred, both at the top: 1) Very high quality jamming occurred, audible only at the top. This stopped when the jamming station was informed the sheriff was looking for him. 2) The first vibrapack went out and two minutes (timed) was required for replacement. This occurred during the rag-chewing before the race began. The remaining on the peak was uneventful.

Kent, KØVCR, has been doing a lot of work mobile with his Heath twoer. Readability and strength in Security has been as low as 57 and as high as 59.

John, KNØEND, has got a new Hy-gain 10 element two meter beam with a stated gain of 13db. John's receiver plans include a Gem Nuvistor converter fed into a BC-455 receiver used as a tunable IF at 6 - 9.1 mcs. John will be going to C. U. this winter, but should be operating again sometimes in January.

Bill, KØALH, has been operating on two meters for sometime now. He is using an ARC-1 and feeding either a quad or ground plane. The quad gives some really remarkable results and yet only takes one half to three quarters of an hour to construct.

Plans for the quad are shown on the next page. The wire for stringing it can be most anything from about number 14 wire to Holey Iron. Holey iron is convenient to use if it is available. (If you plan to buy it, get two ten foot rolls) Suitable wood would be 1 x 2.



### FOR SALE

\* \* \*

Home built 2 meter rig. 5763 output with 6K6 modulator, includes 6AU6 speech amp for xtal mike, all mounted on 6x8x2 chassis. Requires 6v AC or DC and 260v @ 100ma for operation. WØBAG EX 2-8176. \$15.00

\* \* \*

SX-28A, w/manual and speaker. \$75.00. EX 2-3921 Max WØBDH

\* \* \*

10-15 mtr quad, complete w/frame and phasers, coax cable for both bands, could be coil loaded for 15-20 mtrs. Asking \$10.00 or trade for equal value junk. VHF-152 converter RME 10-6-2 mtrs. Like new Trade or sell. Joe KØGBS ME 4-5297.

### ELECTIONS

\* \* \*

The OCTOBER meeting is the time to elect new officers for your club. There will be a nominating committee who will prepare a slate. Make your desires known or nominate from the floor on election night.

\* \* \*

### ZERO BEAT

\* \* \*

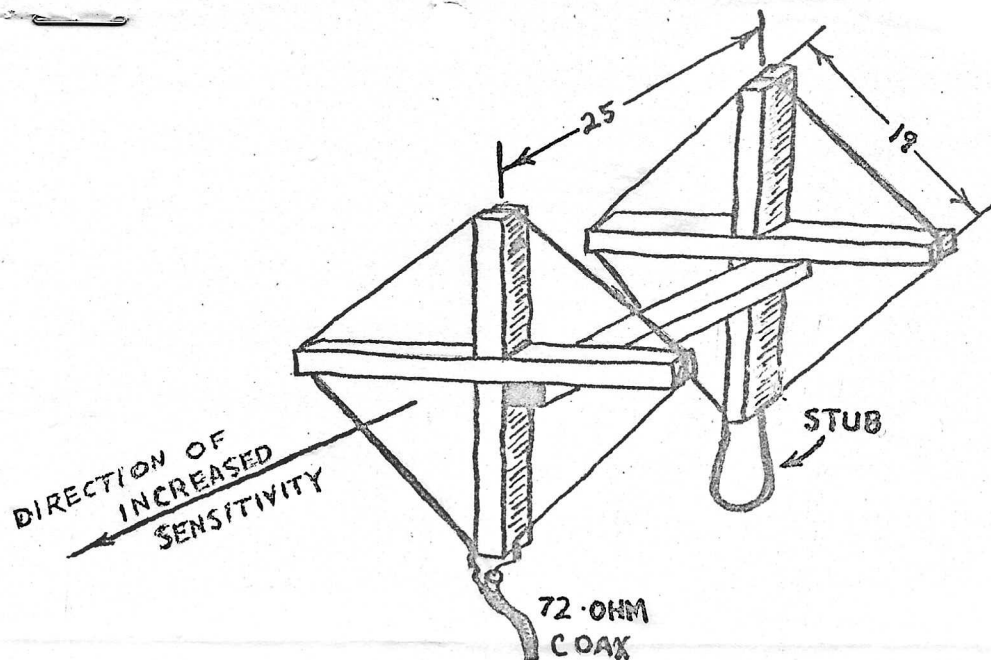
Your prexy DICK KØTBE, has been acting as editor for the past year. He'll be going to school Wednesday nights for the next six months and will have a problem finding the time to put out your Ø BEAT. So think about a replacement for editor. Maybe there are some volunteers!

\* \* \*

### NEXT MEETING

\* \* \*

Wednesday, 13 September 1961, will be the next meeting of the PPRAA. This will be the first meeting of the fall season. Let's have a good turn out. The program will be a very fine movie - - "MARS AND BEYOND." All who have seen it have rated it EXCELLENT. Though it is not directly related to ham radio, it still has some good points for future thinking. Tell your friends.



As can be seen, the two elements are spaced approximately 25" (This varies from antenna to antenna and should be set to wherever best performance is obtained). The arms of the crosses are 26.87006 inches in length (26 3/4" is enough). Both the radiator and reflector are 19 inches on the side. Be sure to leave plenty for the stub - between 8 and 10 inches of loop. The quad is tuned just as any other quad; this procedure may be found in the handbook.

This simple antenna will give about 6db of gain. The only disadvantage is that it is unidirectional - it works best in only one direction, similar to a beam. It has been found that the quad works better on vertical polarization if the corners are pointed up and down - as shown in the picture. All in all, this antenna is really worth the time and money required to build it.

Finally, several of the two meter hounds have been meeting on Tuesdays at 7:00 o'clock at 146.25 mcs. for a weekly ragchew. Everyone interested particularly novices are invited to participate. There are undoubtedly many excuses for not participating, but the excuse that, "Nothing ever happens there", or, "No one's ever on" is no longer valid.



P. O. BOX - 1797  
 COLO. SPRINGS,  
 COLORADO

FORM 3547 REQUESTED